

## TITLE

## DOCUMENT MANAGEMENT SYSTEMS AND METHODS

Field of the Invention

5 The present invention relates to systems and methods for management of documents and particularly, to systems and methods for management of documents over a network of computers in which a user can gain access to the information repository from a computer having access to the network.

Background of the Invention

10 The ability to gain timely access to important information on a computer, and, more particularly, on a computer network, is a necessity in today's competitive market. As the number of digital documents continues to grow, such access will only gain in importance.

20 Document management systems automate document management on computer networks and facilitate location and sharing of documents in workgroups without requiring knowledge of, for example, the DOS filename or physical location of a document. A document management system may also provide system administration functions by establishing criteria that are used to, for example, determine storage location and/or determine document archival actions.

Furthermore, security criteria can be assigned to limit unauthorized access to documents.

Document management systems typically store critical information required to access a document in a document "profile." The profile may include document attributes or information about the document such as the document type, the author, the creation date, the access rights, etc. The profile information is stored in a database and is used to retrieve the document via a search or query without the user having to remember, for example, the DOS filename and storage location (for example, server\volume:directory\filename). Profiling thus provides quick access to documents.

In addition to locating documents from the information stored in the document profile, a number of document management systems also index document text allowing users to perform full-text searches to find documents. Such full-text searches can require somewhat lengthy searches in large databases.

Although a number of computer implemented document management programs or systems are currently available, it remains desirable to develop improved document management systems and methods.

Summary of the Invention

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5 The present invention provides a computer implemented method for managing documents including the steps of creating a document profile that includes fields of attributes of a document and generating a unique identifier corresponding to the document (that is, corresponding preferably to the document profile and the associated document content). The unique identifier includes at least a first portion including information descriptive of an attribute of the document and at least a second portion including an automatically generated number. The method preferably further includes the step of storing the document profile for the document. In one embodiment the first portion is descriptive of the author of the document. The second portion is preferably a sequentially generated number that is unique for the first portion. That is, there may be many documents having the same first portion (for example, the initials of the author), but each document identifier having the first portion preferably has a unique number for the first portion.

25 The present invention also provides a computer implemented method for managing documents including the steps of creating a document profile and selecting a predefined document template for the document during creation of the document profile. The document template defines the format of the document. Preferably, the document profile is stored before any information is entered into a content of the document.

The present invention also provides a computer implemented method for managing documents including the steps of creating a document profile and linking the document profile to a file type that is not created within the document management system. As used herein, the phrase file type refers to generally any stored information that can be read or used by an associated software application. The file type may, for example, be a word processing document, a spreadsheet document, a database record (for example, an email message) or a URL link. Selecting the link from the document profile preferably launches or switches to the software application associated with the file type.

The present invention also provides a method for managing documents including the steps of creating a document profile, storing the document profile, and creating an email message including a link to the document profile so that a recipient of the message can access the document associated with the document profile. Preferably, the email message is created from within the document management system. That is, the user of the document management system can create the email without having to exit the document management system and switch to an email program.

The present invention also provides a method for managing documents including the steps of creating a document profile, storing the document profile, and creating an email message including a copy of the document from within the document management system so that a recipient of the message can access the copy of the document.

The present invention also provides a method for managing documents including the step of defining user access permission for a document profile or an associated document content in the document profile. The step of  
5 defining user access permission preferably includes the step of acquiring the identity of the user from a source external to the document management system. The source of the identity of the user may, for example, be an operating system security system or a database security system.

10 The present invention also provides a method for managing documents including the steps of creating at least one document profile that includes fields of attributes of an associated document content and storing the document profile in a database. The method also includes the steps  
15 of storing the document content external to the database in a file system of a first storage device and replicating the document content from the first storage device to a second storage device.

20 As clear to one skilled in the art, any two or more of the above-identified methods of the present invention can be practiced in a single document management system. The present invention also provides a machine readable medium having stored thereon data representing sequencing of instructions for carrying out the above  
25 methods, which, when executed by a computer system (as known in the art), cause the computer system to perform the steps of the method(s).

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The present invention also provides a computer implemented document management system including a module to create a document profile to be stored in a database in the storage device and, for example, a module to generate a unique identifier for the document. The unique identifier preferably includes at least a first portion including information descriptive of an attribute of the document and at least a second portion including a number generated by the unique identifier generation module.

The document profile creation module preferably further includes a module to select a predefined document template for the document during creation of the document profile. The document profile creation module preferably also includes a module to link the document profile to a file type that is not created within the document management system on an existing document profile.

The document management system preferably further includes a module to link an email message having a link to the document profile so that a recipient of the message can access the document associated with the document profile. The document management system also preferably includes a module to email a message comprising a copy of the document from within the document management system so that a recipient of the message can access the copy of the document.

The document management system preferably further includes a module to define user access permission in the

document profile by acquiring the identity of the user from a source external to the document management system.

The present invention and its attendant advantages will be further understood by reference to the following detailed description and the accompanying drawings.

### Brief Description of the Drawings

Figure 1 illustrates a document including a document profile and document content.

Figure 2 illustrates an embodiment of the structure of a document management system of the present invention.

Figure 3 illustrates a network architecture suitable for use with the document management system of the present invention.

Figure 4A illustrates a screen capture providing for full text indexing of documents.

Figure 4B illustrates a screen capture providing for searching capability.

Figure 5A illustrates a screen capture of initiation of a process for setting system variables.

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Figure 5B illustrates a screen capture of an information/variable query during setting of system variables.

Figure 6A illustrates a screen capture of initiation of a process for defining document templates.

Figure 6B illustrates a screen capture of definition of a document template.

Figure 7 illustrates a screen capture of an embodiment of a navigator of the document management system of the present invention.

Figures 8 and 9 illustrate an embodiment of a document profile screen for use in the document management system of the present invention.

### Detailed Description of the Invention

The present invention provides for management of documents over, for example, a wide area network in which a user can gain access to the information repository from generally any computer having access to the network. Preferably, access to the documents is enabled via either a dedicated document management interface or via the use of a browser such as Microsoft® Internet Explorer® or Netscape® Navigator®.



In the document management program or system of the present invention, each document 10 (see Figure 1) preferably comprises two parts, a document content 20 and a document profile 30. Document content 20 is the actual information contained within document 10 and can, for example, include BLOB, text, graphics, video and/or audio information. Document profile 30 includes attributes of the document including, for example, the title, the author, the office location, the document number, the type of document, and the date created. Document content 20 and document profile 30 may be stored together or separately.

Figure 2 illustrates an embodiment of a document management system of the present invention. In general, the document management system is executed by a computer 60 that includes a storage device 62 (for example, a compact disk or a hard drive as known in the art) and a processing unit 64. In the embodiment of Figure 2, an operating system 110 and the document management system are both stored on a hard drive 62.

In this embodiment, operating system 110 includes a file system 120 that may contain document content 20 which are stored as individual files as known in the art. File system 120 also contains a database 40 that preferably includes document profiles 30 associated with document content 20 and security information. Preferably, document profile 30 contains security settings for each document profile 30 and a corresponding document content 20. A document profile 30 can, for example, be made public so that it is viewable/accessible by all users of the document

management system. Access to document profile 30 can also be limited to a user or group(s) of users. Likewise, document content 20 can be made public or private. In the case that a particular document content 20' is made private, document content 20' is preferably stored as an object within database 40 rather than in file system 120 of operating system 110.

File system 120 is preferably a conventional computer-implemented file system such as provided, for example, in the Microsoft® Windows® operating system, the IBM® OS400 operating system, the UNIX® operating system or the Apple® Macintosh® operating systems. Database 40 is preferably a conventional structural information system storing information as a set of records and attributes or fields.

Security information 50 represents access control information to determine whether a particular user has permission rights to access the document management system and document profiles 30 and/or document contents 20. Document manager 130 accesses document profile 30 and document content 20 and allows a client computer 140 access to document 10 formed by the combination of document content 20 and document profile 30 if permitted by security monitor 50 and the security information within document profile 30.

As described above, operating system 100 may include, for example, the Windows operating system family (for example, Windows NT®, Windows 98® or Windows 95®).

Operating system 100 preferably contains a conventional operating system security 160. System security 160 is built into conventional operating system 100. For example, in the case of Microsoft Windows NT, a built in security system is provided which requires entrance of a password for a user to log into the system and thereby gain access to files and to the network. Similarly, many other conventional operating systems require a password or access code to allow a user operating client computer system 140 to log on. Preferably, operating system security 160 or another existing security feature (as provided, for example in Lotus Domino® server) is used by document manager 130 of the present invention to identify users and access permissions of such users. In that regard, security manager 150 of document manager 130 may connect to and operate in conjunction with operating system security 160 or, for example, the Central Administration Address Book of Lotus Domino, to identify users who may access the document management system as well as document profiles 30 and document contents 20 thereof.

Other document management systems typically require an administrator to create users or user tokens within those document management systems. Using an existing user list such as provided in a Lotus address book prevents duplicative labor and simplifies administration of the document management system. In use of the document management system of the present invention, a user is typically first required to log on to the operating system as determined by operating system security 160. The user may also be required to log onto a particular server such as the Lotus Domino server. A user permitted access to the

document management system as determined by security monitoring 150 may then use the document management system. Whether the user has access to a particular document profile 30 and corresponding document content 20, is determined by security information established in document profile 30.

One embodiment of a network architecture 200 suitable for use with the document management system of the present invention is set forth in Figure 3. In this embodiment, a corporate network or intranet 210 comprises, for example, two servers 220 and 230 on a local area network 215 in a main office. A number of client computer systems (not shown) are also preferably connected to network 215. Network 210 is preferably connected to another network 235 via a router 250 and a firewall 260. Network 235 is an extranet comprising an extranet server 240. The term "extranet" is used herein to describe a shared secure repository of information that is accessible from outside of intranet 210 (for example, over the Internet). Placing extranet server 240 on separate network 235 and isolating it from intranet 210 assists in protecting the network resources of intranet 210.

As known in the art, firewall 260 comprises a system designed to prevent unauthorized access to or from intranet 210. Firewall 260 can be implemented in hardware or software, or in a combination of both. Firewall 260 prevents unauthorized Internet users from accessing intranet 210. All messages entering or leaving intranet 210

pass through firewall 260, which examines each message and blocks those that do not meet specified security criteria.

Local area network 215 is preferably connected to other local area networks in the intranet via router 250.

- 5 In Figure 3, local area network 215 is connected to one other local area network 270 in a branch office via router 250 and branch office router 280 using, for example, frame relay protocol or asynchronous transfer mode (ATM).

- 10 Extranet 235 is preferably connected to the Internet via firewall 260 and an Internet router 290 using, for example, frame relay or ATM. Internet router 290 may be connected to an Internet gateway 300 and a web server, a DNS server, and a mail server 310 at an Internet Service Provider (ISP) to provided connection to the Internet.

- 15 In one embodiment discussed herein, the database architecture of the document management system of the present invention utilizes or is built upon Lotus Domino® server, Lotus Notes® Application Development Tools and Lotus® Script language. Other architectures are possible, however. Information regarding the use of these Lotus tools is provided, for example, in Lotus Notes Application Development I and II, Release 5, Lotus Development Corporation (1999); Lotus Notes Programmer's Guide, Release 5, Lotus Development Corporation (1999); Lotus Domino Administering the Domino System, Release 5, Lotus Development Corporation, (1999); Lotus Domino Managing Domino Databases, Release 5, Lotus Development Corporation (1999); and Lotus Domino Configuring the Domino Network,

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Release 5, Lotus Development Corporation (1999), the disclosure of which are incorporated herein by reference.

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The Lotus Domino server family provides an integrated searching, indexing, messaging, intranet, 5 extranet, and Internet applications software platform. Lotus Domino supports many different services/protocols including, for example, SMTP, MIME, S/MIME, SSL, POP3, IMAP4, LDAP, HTTP, HTML and SNMP.

10 Lotus Domino also facilitates access to information through a browser, making the information available to a user from anywhere via, for example, the Internet. Web-based access through a browser is automatically enabled by Lotus Domino without additional hardware or software. A database created in a Domino 15 environment is, therefore, a browsable database. To access documents through the Internet in an environment other than Lotus Domino typically requires running an additional server (for example, Microsoft IIS) and a knowledge of HTML or Java to design an interface for a user to search or view the 20 existing document database.

25 The integrated services of a Lotus Domino enterprise environment also simplify hardware requirements as compared to other architectures. For example, the hardware for the document management system of the present invention may comprise a single server to perform intranet/extranet and Internet- or web-based database functions with the use of Lotus Domino. Moreover, disaster recovery may, for example, be achieved through two inherent

redundancy features: (1) replication, which is a scheduled process and (2) clustering, which is a real-time process.

Other server/client environments typically require separate software/hardware components to create full-text indexes and query capabilities. The Lotus Domino environment does not require these additional components. Full-text indexes are built by turning on the full-text index option inherent in Lotus Domino as illustrated in box 350 of Figure 4A. Query capabilities are provided through a standard search bar or query by example form as illustrated screen 360 of Figure 4B, which does not require the purchase of an SQL server.

As will be appreciated by one skilled in the art, however, all the functionality provided by Lotus Domino is available using other servers. For example, Microsoft NT Server can be used in conjunction with an indexing server such as Verity® and a searching server such as Microsoft SQL®. Internet applications can be provided by, for example, Microsoft IIS server, which enables/facilitates web access when used in connection with, for example, an HTML or JAVA front-end program to access the back-end database.

Several system variables of the document management system of the present invention are preferably set by, for example, a network administrator during installation of the system. Preferably, the installation process includes answering a few queries or requests for information to set up system parameters through variables that define, for example, the location of document files and

templates. The system variables setup process may be initiated by selecting Set System Variable from Actions menu 370 of screen 375 as illustrated in Figure 5A. The answer to a first query preferably defines how an organization desires to store its documents as illustrated by query box 380 of screen 385 in Figure 5B. Several options are preferably provided. Documents may, for example, be stored by Author/Document Type, Client/Matter, or Client/Matter/Document Type. The answer to a second query preferably defines the path where "public" document contents 20 are to be stored in file system 120. The answer to a third query preferably defines a mapped drive to identify the path of the document storage. A template directory and a mapped drive for the template directory are also preferably defined by the network administrator in response to other queries.

Setting these variables enables an administrator and/or a user to select any operating system/file system to store documents and templates. Documents and templates stored in file system 120 are preferably linked to database 40 in a manner so that any operating system and/or mapped drive can be used to store the documents and templates.

Unlike prior document management systems, the document management system of the present invention preferably provides for replication of all data in database 40 as well as all document contents 20 or other document management system data stored externally from database 40 to a secondary server to provide for redundancy.



Although some current document management systems allow storage of documents external to the database thereof, these document management systems enable replication/redundancy of only documents and other data stored within the database.

- 5 Preferably, the user/administrator of the document management system of the present invention is queried as to whether replication/redundancy is desired during the process of setting the system variables. If replication/redundancy is desired, another query is preferably made to set the drive mapping and path of the secondary server on which replicated documents are to be stored.

Preferably, the replication process takes place during Profile-New, -Edit, -Copy and -Save functions. During any of these functions, the document management system of the present invention preferably checks for the newest or most current version based on date and copies the most newest version to the replicated server. If for some reason the replicated server is not available, the document management system preferably marks the profile for replication to occur after the replicated server is once again available.

Defining templates within a document management system is a another unique function of the document management system of the present invention. The system administrator or other person of the document management system of the present invention can set up templates based on software application and a document type (for example, letter, memorandum, budget, etc.) under the create menu as illustrated in screen 392 of Figure 6A. As illustrated

in screen 393 of Figure 6B, the administrator can define, among other things, a template name in field 394, a relative path for the template in field 395 and an application associated with the template in field 396. Preferably, the administrator is provided with a menu for each choice as illustrated by application menu 397 in Figure 6B.

The user is thereby preferably presented with a pre-defined formatted document template that ensures compliance with company policy and consistent formatting in generating documents. All templates may include, for example, the company name/logo and a footer including a unique document identifier. The document template is preferably chosen by the user when completing document profile 30 and does not require the user to first launch the associated application. Such templates are discussed in further detail below.

Any number of parameters for organizing documents or identifying documents can be included in the document management system. For example, lawyers typically identify particular tasks with a particular client and a particular matter for that client. For example, the client may be NewCo, Inc. and the matter may be the NewCo, Inc. vs. OldCo, Inc. litigation. Client/Matter definitions preferably comprise unique alpha/numeric code and/or names. For example, the above client can be represented by a unique client name (for example, "NewCo, Inc." as well as a unique client number (for example, 20001). Likewise, the matter can be represented by a unique name (for example, "NewCo, Inc. vs. OldCo, Inc.") as well as a unique number (for

example, 00001). This information can be typed into the document management system manually (by selecting Client-Matter in Create menu 390) or be imported electronically (from, for example, an existing database such as a billing system or other document management system) through, for example, an ASCII import/export.

A user or system administrator preferably also defines particular library that, for example, includes an office location and a Universal Resource Locator (URL) associated to each office specifying the name of the server and the path of the document storage as defined above to facilitate access to the database via the Internet.

Figure 7 illustrates a screen capture showing a preferred embodiment of a navigator 300 of the document management system of the present invention or panes. Navigator 300 is preferably divided into three sections. A folder/view identifying pane 310 on the left side of navigator 300 preferably includes graphical representations of folders for organization of information and graphical representations for exhibiting predefined views for illustrating information (for example, a list of document profiles). In the embodiment of Figure 7, for example, document profiles can be organized and viewed by author, by client-matter or by library. Other views can be defined by the user or an administrator. Such views are preferably continually updated and an index built with every newly created document. A second section of navigator 300 comprises an action bar 320 with dynamic buttons as known in the art to enable the user to perform a task or function. A

third section of navigator 300 is a view pane 330 in which a view chosen in folder/view identifying pane 310 is presented. In Figure 7, the By Author view 340 has been selected in folder/view identifying pane 310, and the document profiles are arranged by author in view pane 330. View pane 330 preferably includes pre-defined field sort buttons 332, 334, 336 and 338 which enable ascending or descending sort functions base on the fields or attributes below the view pane buttons. For example, the document profiles listed in Figure 7 can be sorted by document number, library, date/time and document title or name using field sort buttons 332, 334, 336 and 338, respectively. Below field sort buttons 332, 334, 336 and 338 is a list of documents profiles that pertain to the selected view.

Action bar 320 may, for example, include a Document button 322 that when pressed exhibits a drop down menu allowing a user to Edit, View, or Print a document or documents corresponding to a selected (highlighted) document profile or profiles. A Profile button 324 is preferably provided to allow a user to Create, Copy, Edit, Print, or View a selected document profile via, for example, a drop down menu. A Mail button 326 is preferably provided to allow a user to mail a Link to Document, to mail a Copy of Document, or to Switch to a mail program in Notes (or another application) via a pull down menu.

Choosing to mail a Link to Document enables the user to automatically, from within the document management system, create an email message including a link to the profile record. The user is preferably switched to an email

program to mail the link. The recipient of the email message can work on/edit the database record from their mail system. Choosing to mail a Copy of Document copies the external file corresponding to document content 20 from file system 120 to an email message. Preferably, the user is switched to the email program/system and to the email with the selected document selected. The recipient of the email message can edit the copy of the document. However, the document in the database record will remain unchanged.

Choosing to Switch to Notes (or another application or functionality - for example, Switch to Microsoft Outlook) serves a number of purposes. For example, it conveniently enables a user to switch to their mail, calendar or other features at any time while working in the document management system. It also operates with the Notes link field on the document profile screen which is described in connection with document profiles below.

Document profile 30 is a very important function of the document management system of the present invention. As described above, document profile 30 includes the key fields of information or attributes that a user utilizes to define an associated document content 20. A document 10 can be located via text searching capabilities using the fields defined in associated document profile 30. An embodiment of a document profile screen 400 is illustrated in Figures 8 and 9.

Document profile screen 400 preferably appears as soon as a document is created so that document attribute

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fields (including a unique document identifier generated by the document management system) are established before the user enters data into document content 20.

Document profile 30 preferably includes any number of attribute fields to suitably identify/define associated document content 20. Like other document management systems, a unique document identifier/number is preferably generated by the document management system of the present invention. Unlike other document management systems, however, the unique document identifier comprises a numeric portion 410 (see Figure 5) generated by the document management system of the present invention and one or more information portions 420 (for example, prefix(es) and/or suffix(es)) that assist in identifying documents by providing information about the document. For example, a preferably unique document identifier prefix may comprise a user's initials (typically entered at log on - for example, John J. Doe would enter "JJD"). The document identifier will thus comprise the user's initials followed by, for example, a number unique for that individual (preferably, a sequential number generated by the document management system starting, for example, with the number one). For example, the first document as created by John J. Doe would have the document identifier jjd1. The document identifier preferably appears in a document identifier/number field 405 on document profile screen 400. A user may, for example, be required to enter the user's login initials when a document profile is created as illustrated by query box 408 of Figure 8.

In this embodiment, a second user will have a document identifier prefix that comprises the user's initials (typically entered at log on - for example, Jane L. Smith would enter "JLS"). The document identifier for the second user will thus comprise the second user's initials followed by a sequential number generated by the document management system starting with the number one. The first document created by Jane L. Smith would have the document identifier jls1, while the twenty-first such document would have the document identifier jls21.

The unique document identifier of the present invention easily identifies how to locate a document without having to perform a search. A user can simply, for example, go directly to the By Author view discussed above in connection with Figure 7 and locate the document corresponding to the identifier jjd1 without a query-by-example search that is necessary with other document management systems. The sequential number portion of the document identifier also serves as a productivity measure based on the number of documents a user generates. All other document management systems require a report writer function to produce these types of statistics.

An office field 412 preferably identifies the location/library in which a document is stored. Choices for office field 412 and several other fields described below are preferably provided through a pull down menu. An author field 415 identifies the author of the document. As with office field 412, a pull down menu is preferably provided to allow selection of an author. The menu is, for example,

preferably generated using the Central Administration Address Book that is utilized for other Lotus applications. As discussed above, there is only one place to maintain a user list and the security associated with authentication in this manner. Many other systems require the user to have separate address books (i.e. one for e-mail, one for the operating system, one for document management, etc.).

A title field 422 is provided to enable the user to define a preferably descriptive title for the document. A document type field 425 is preferably provided and serves two purposes. First, document type field 425 identifies the application software that is being requested. Second, the type/template of document generated is also identified. For example, the application may be indicated as Microsoft Word 97® and the document type may be indicated a "Letter," which indicates that the user is selecting to create a letter using Microsoft Word 97. Moreover, as discussed above, a template is preferably associated with the type of document (LETTER in this example) that has a unique set of formatting instructions already in place for the creation of a document, providing improved productivity and consistency. A pull down menu is preferably provided for selection of a document type.

A client name field 430 and a corresponding client number field 435 may be provided with associated pull down menus. Likewise a matter name field 440 and a corresponding matter number field 445 are preferably provided with associated pull down menus. The client identifier fields 430 and 435 and the matter identifier fields 440 and



445 are preferably related to each other in a parent/child relationship. Preferably, the client identifier is the parent and the matter identifier is the child. Therefore, specific matter identifiers only appear based on the specific client selected. As discussed above, these fields may be populated by an ASCII imported file that is preferably updated periodically (for example, daily), from, for example, a billing system or program using an agent program provided in the document management system of the present invention. The agent program preferably specifies the import schedule and the action to be taken.

A security or restrict read access field 450 is preferably provided to define document security. Preferably, only individual(s) and/or group(s) selected/displayed in security field 450 can see that the document profile exists. In general, other document management systems are limited to defining groups or types of security. Likewise, a second security field 455 enables restriction access/editing privileges to document content 20. If nothing is entered in security field 450 or security field 455, document profile 30 and document content 20 will be public. As discussed above, the document management system of the present invention enables integration with the security system of, for example, the Central Administration Address Book of Lotus Domino to identify potential users and groups of users.

A comments field 460 is preferably provided to enable entrance of unlimited comments to enhance full-text search capabilities.

An add. docs (additional documents) field 465 (for example, a rich text field) is preferably provided to enable any number of multiple documents or any other file type (for example, document files, database records, or URL links) to be included on a single document profile. Other document management systems do not enable multiple documents to be contained on a single document profile. Additional document field 465 enables a user to attach file types and links that are external to the document management system (that is, file types that were not created within the document management system and that do not have an associated profile). Such documents may, for example, be related to the main document (that is, the document for which the document profile has been created). Other document management systems require the user to link only document profiles through a related document feature.

An email/other field 470 (preferably, a rich text field) enables the user to link email messages (typically, a database record) and/or any other type of database file, view, folder, calendar entry, to-do item, etc. to the document profile. No other document management system allows for this type of relationship/linking between the document profile of the document being created and other types of documents or files that are associated with, for example, a matter and/or project. Other document management systems require the user to organize separate document profiles into folders and do not allow for other, external file types to be linked to the document profile.

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10  
5 A create document button 475 is preferably provided on document profile screen 400 to launch or invoke the application specified in type field 425 and creates a file in the operating system based on the predefined system variables that were selected by the administrator upon setup of the database. The document management system of the present invention is the only document management system that automatically passes the unique document identifier, the title and the author to the external application upon document creation. Other document management systems assign a temp file number and require the user to save the file and then return to the document management system to obtain the unique document identifier.

15 Although optimized for 32-bit applications, the document management system of the present invention is preferably not limited to 32-bit applications. The document management system can preferably launch any type of file format. A number of other document management systems do not allow 16-bit applications to be integrated into the  
20 system.

The details of four forms (Client/Matter, Document Profile, Document Template and Library) and script associated therewith of one embodiment of the present invention are set forth in the Appendix hereto.

25 Although the present invention has been described in detail in connection with the above examples, it is to be understood that such detail is solely for that purpose and that variations can be made by those skilled in the art

without departing from the spirit of the invention except as it may be limited by the following claims.

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## APPENDIX

**Form Information****Name:**

Last Modification:  
 Comment:  
 Type:  
 Include in Compose Menu:  
 Include in Query by Form:  
 Default Database Form:  
 Automatically Refresh Fields:  
 Mail New Documents When Saving:  
 Store Form In Documents:  
 Inherit Default Field Values:  
 Updates Become Responses:  
 Retain Prior Versions As Responses:  
 Activate Objects When Composing:  
 Activate Objects When Editing:  
 Activate Objects When Reading:  
 Document Encryption Keys:  
 Composed Documents May Be Read By:  
 Form May Be Composed By:

**Subcomponents:****Field:**

Datatype:  
 Input Multi-Value Separator(s):  
 Display Multi-Value Separator:  
 Help Description:  
 Field Type:  
 Sign When Mailing/In Section:  
 Encryption:  
 Update Requires Editor Access:  
 Default Value Formula:  
 Is Scripted:

**Field:**

Datatype:  
 Help Description:  
 Field Type:  
 Sign When Mailing/In Section:  
 Encryption:  
 Update Requires Editor Access:  
 Default Value Formula:  
 Is Scripted:

**Field:**

Datatype:  
 Input Multi-Value Separator(s):  
 Display Multi-Value Separator:  
 Help Description:  
 Field Type:  
 Sign When Mailing/In Section:  
 Encryption:  
 Update Requires Editor Access:

**Client-Matter**

CM  
 Document  
 Yes  
 Yes  
 No  
 No  
 No  
 No  
 Yes  
 No  
 No  
 No  
 No  
 [None Assigned]  
 All Users  
 All Users

**Client**

Text  
 Comma, Semicolon, New Line  
 New Line  
 [Not Assigned]  
 Editable  
 No  
 Disabled  
 No  
 Client  
 No

**ClientNumber**

Text  
 [Not Assigned]  
 Editable  
 No  
 Disabled  
 No  
 ClientNumber  
 No

**Matter**

Text  
 Comma, Semicolon, New Line  
 New Line  
 [Not Assigned]  
 Editable  
 No  
 Disabled  
 No

10027879.122101

Is Scripted:

**Field:**

Datatype:

Help Description:

Field Type:

Sign When Mailing/In Section:

Encryption:

Update Requires Editor Access:

Is Scripted:

**JavaScript & HTML Code:**

[None]

**LotusScript Code:**

[None]

No

**MatterNumber**

Text

[Not Assigned]

Editable

No

Disabled

No

No

10027879-121401

**Name:**

Alias:  
 Last Modification:  
 Comment:  
 Type:  
 Include in Compose Menu:  
 Include in Query by Form:  
 Default Database Form:  
 Automatically Refresh Fields:  
 Mail New Documents When Saving:  
 Store Form In Documents:  
 Inherit Default Field Values:  
 Updates Become Responses:  
 Retain Prior Versions As Responses:  
 Activate Objects When Composing:  
 Activate Objects When Editing:  
 Activate Objects When Reading:  
 Document Encryption Keys:  
 Composed Documents May Be Read By:  
 Form May Be Composed By:

**Subcomponents:****Field:**

Datatype:  
 Input Multi-Value Separator(s):  
 Display Multi-Value Separator:  
 Help Description:  
 Field Type:  
 Sign When Mailing/In Section:  
 Encryption:  
 Update Requires Editor Access:  
 Formula:  
 Is Scripted:

**Field:**

Datatype:  
 Help Description:  
 Field Type:  
 Keyword User Interface:  
 Allow Values Not In List:  
 Allowable Keywords Formula:

Sign When Mailing/In Section:  
 Encryption:  
 Update Requires Editor Access:  
 Is Scripted:

**Field:**

Datatype:  
 Help Description:  
 Field Type:  
 Sign When Mailing/In Section:  
 Encryption:  
 Update Requires Editor Access:  
 Formula:

**Document Profile**

DP

represents a document  
 Document

Yes  
 Yes  
 Yes  
 No  
 No  
 No  
 No  
 No  
 No  
 No  
 No  
 [None Assigned]  
 All Users  
 All Users

**DispDocNo**

Text  
 Comma, Semicolon  
 Semicolon  
 [Not Assigned]  
 Computed for display  
 No  
 Disabled  
 No  
 DocumentNo  
 No

**Library**

Keywords  
 [Not Assigned]  
 Editable  
 Standard  
 No  
 @DbColumnn(""; ""; "Library";  
 1);  
 No  
 Disabled  
 No  
 No

**DispLibrary**

Text  
 [Not Assigned]  
 Computed for display  
 No  
 Disabled  
 No  
 Library

10027879.122101

Is Scripted:

**Field:**

Datatype:  
Input Multi-Value Separator(s):  
Display Multi-Value Separator:  
Help Description:  
Field Type:  
Sign When Mailing/In Section:  
Encryption:  
Update Requires Editor Access:  
Is Scripted:

**Field:**

Datatype:  
Help Description:  
Field Type:  
Sign When Mailing/In Section:  
Encryption:  
Update Requires Editor Access:  
Is Scripted:

**Field:**

Datatype:  
Help Description:  
Field Type:  
Keyword User Interface:  
Allow Values Not In List:  
Allowable Keywords Formula:  
  
Sign When Mailing/In Section:  
Encryption:  
Update Requires Editor Access:  
Is Scripted:

**Field:**

Datatype:  
Help Description:  
Field Type:  
Keyword User Interface:  
Allow Values Not In List:  
Allowable Keywords Formula:  
  
Sign When Mailing/In Section:  
Encryption:  
Update Requires Editor Access:  
Is Scripted:

**Field:**

Datatype:  
Help Description:  
Field Type:  
Keyword User Interface:  
Allow Values Not In List:  
Allowable Keywords Formula:  
  
Sign When Mailing/In Section:  
Encryption:  
Update Requires Editor Access:

No

**Author**

Names  
Comma  
Comma  
[Not Assigned]  
Editable  
No  
Disabled  
No  
No

**DocName**

Text  
[Not Assigned]  
Editable  
No  
Disabled  
No  
No

**DocType**

Keywords  
[Not Assigned]  
Editable  
Standard  
No  
@DbColumn("Notes" :  
"NoCache"; "", "Templates"; 1);  
No  
Disabled  
No  
Yes

**Client**

Keywords  
[Not Assigned]  
Editable  
Standard  
No  
@DbColumn("Notes" :  
"NoCache"; "", "CMLU"; 1);  
No  
Disabled  
No  
Yes

**ClientNumber**

Keywords  
[Not Assigned]  
Editable  
Standard  
No  
@DbColumn("Notes" :  
"NoCache"; "", "CMLUBN"; 1);  
No  
Disabled  
No



Is Scripted:

**Field:**

Datatype:  
Help Description:  
Field Type:  
Keyword User Interface:  
Allow Values Not In List:  
Allowable Keywords Formula:

Sign When Mailing/In Section:  
Encryption:  
Update Requires Editor Access:  
Is Scripted:

**Field:**

Datatype:  
Help Description:  
Field Type:  
Keyword User Interface:  
Allow Values Not In List:  
Allowable Keywords Formula:

Sign When Mailing/In Section:  
Encryption:  
Update Requires Editor Access:  
Is Scripted:

**Field:**

Datatype:  
Help Description:  
Field Type:  
Sign When Mailing/In Section:  
Encryption:  
Update Requires Editor Access:  
Formula:  
Is Scripted:

**Field:**

Datatype:  
Help Description:  
Field Type:  
Sign When Mailing/In Section:  
Encryption:  
Update Requires Editor Access:  
Formula:  
Is Scripted:

**Field:**

Datatype:  
Help Description:  
Field Type:  
Sign When Mailing/In Section:  
Encryption:  
Update Requires Editor Access:  
Formula:  
Is Scripted:

Yes

**Matter**

Keywords  
[Not Assigned]  
Editable  
Standard  
No  
@DbLookup("Notes";  
"NoCache"; "", "CMLU"; Client;  
2);  
No  
Disabled  
No  
Yes

**MatterNumber**

Keywords  
[Not Assigned]  
Editable  
Standard  
No  
@DbLookup("Notes";  
"NoCache"; "", "CMLUBN";  
ClientNumber; 2);  
No  
Disabled  
No  
Yes

**DispClient**

Text  
[Not Assigned]  
Computed for display  
No  
Disabled  
No  
Client  
No

**DispClientNumber**

Text  
[Not Assigned]  
Computed for display  
No  
Disabled  
No  
ClientNumber  
No

**DispMatter**

Text  
[Not Assigned]  
Computed for display  
No  
Disabled  
No  
Matter  
No

**Field:**

Datatype:  
 Help Description:  
 Field Type:  
 Sign When Mailing/In Section:  
 Encryption:  
 Update Requires Editor Access:  
 Formula:  
 Is Scripted:

**Field:**

Datatype:  
 Input Multi-Value Separator(s):  
 Display Multi-Value Separator:  
 Help Description:  
 Field Type:  
 Sign When Mailing/In Section:  
 Encryption:  
 Update Requires Editor Access:  
 Is Scripted:

**Field:**

Datatype:  
 Input Multi-Value Separator(s):  
 Display Multi-Value Separator:  
 Help Description:  
 Field Type:  
 Sign When Mailing/In Section:  
 Encryption:  
 Update Requires Editor Access:  
 Is Scripted:

**Field:**

Datatype:  
 Help Description:  
 Field Type:  
 Sign When Mailing/In Section:  
 Encryption:  
 Update Requires Editor Access:  
 Is Scripted:

**Hotspot**

Type:  
 Caption:  
 Is Scripted:

**Hotspot**

Type:  
 Caption:  
 Is Scripted:

**Field:**

Datatype:  
 Help Description:  
 Field Type:  
 Sign When Mailing/In Section:  
 Encryption:  
 Update Requires Editor Access:  
 Is Scripted:

**Field:****DispMatterNumber**

Text  
 [Not Assigned]  
 Computed for display  
 No  
 Disabled  
 No  
 MatterNumber  
 No

**RestrictReadAccess**

Reader Names  
 Comma  
 Comma  
 [Not Assigned]  
 Editable  
 No  
 Disabled  
 No  
 No

**EnableEditByAuthors**

Author Names  
 Comma  
 Comma  
 [Not Assigned]  
 Editable  
 No  
 Disabled  
 No  
 No

**Comments**

Text  
 [Not Assigned]  
 Editable  
 No  
 Disabled  
 No  
 No

**Button**

Create Document  
 Yes, see below

**Button**

Create Document  
 Yes, see below

**Body**

Rich Text  
 [Not Assigned]  
 Editable  
 No  
 Disabled  
 No  
 No

**EmailLink**

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Datatype:  
 Help Description:  
 Field Type:  
 Sign When Mailing/In Section:  
 Encryption:  
 Update Requires Editor Access:  
 Is Scripted:

**Field:**

Datatype:  
 Help Description:  
 Field Type:  
 Sign When Mailing/In Section:  
 Encryption:  
 Update Requires Editor Access:  
 Is Scripted:

**Field:**

Datatype:  
 Help Description:  
 Field Type:  
 Sign When Mailing/In Section:  
 Encryption:  
 Update Requires Editor Access:  
 Is Scripted:

**Field:**

Datatype:  
 Help Description:  
 Field Type:  
 Sign When Mailing/In Section:  
 Encryption:  
 Update Requires Editor Access:  
 Is Scripted:

**Field:**

Datatype:  
 Help Description:  
 Field Type:  
 Sign When Mailing/In Section:  
 Encryption:  
 Update Requires Editor Access:  
 Is Scripted:

**Field:**

Datatype:  
 Help Description:  
 Field Type:  
 Sign When Mailing/In Section:  
 Encryption:  
 Update Requires Editor Access:  
 Is Scripted:

**Field:**

Datatype:  
 Help Description:  
 Field Type:  
 Sign When Mailing/In Section:  
 Encryption:  
 Update Requires Editor Access:

Rich Text  
 [Not Assigned]  
 Editable  
 No  
 Disabled  
 No  
 No

**DocumentNo**

Text  
 [Not Assigned]  
 Editable  
 No  
 Disabled  
 No  
 No

**TemplatePath**

Text  
 [Not Assigned]  
 Editable  
 No  
 Disabled  
 No  
 No

**ClientDocumentPath**

Text  
 [Not Assigned]  
 Editable  
 No  
 Disabled  
 No  
 No

**ServerDocumentPath**

Text  
 [Not Assigned]  
 Editable  
 No  
 Disabled  
 No  
 No

**URLDocumentPath**

Text  
 [Not Assigned]  
 Editable  
 No  
 Disabled  
 No  
 No

**ComputedReader**

Reader Names  
 [Not Assigned]  
 Computed when composed  
 No  
 Disabled  
 No

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Formula:

Is Scripted:

**Field:**

Datatype:

Help Description:

Field Type:

Sign When Mailing/In Section:

Encryption:

Update Requires Editor Access:

Formula:

Is Scripted:

**Field:**

Datatype:

Help Description:

Field Type:

Sign When Mailing/In Section:

Encryption:

Update Requires Editor Access:

Is Scripted:

**Field:**

Datatype:

Input Multi-Value Separator(s):

Display Multi-Value Separator:

Help Description:

Field Type:

Sign When Mailing/In Section:

Encryption:

Update Requires Editor Access:

Is Scripted:

**Field:**

Datatype:

Input Multi-Value Separator(s):

Display Multi-Value Separator:

Help Description:

Field Type:

Sign When Mailing/In Section:

Encryption:

Update Requires Editor Access:

Is Scripted:

**Field:**

Datatype:

Number Format:

Percentage (value \* 100)%:

Parentheses on Negative Numbers:

Punctuated at Thousands:

Help Description:

Field Type:

Sign When Mailing/In Section:

Encryption:

Update Requires Editor Access:

Default Value Formula:

Is Scripted:

**Action Exit\After Saving**

@If(RestrictReadAccess != "",

@UserName; "");

No

**CreatedBy**

Author Names

[Not Assigned]

Computed when composed

No

Disabled

No

@UserName

No

**AppClassName**

Text

[Not Assigned]

Editable

No

Disabled

No

No

**BuiltinProperties**

Text

Comma, Semicolon

Semicolon

[Not Assigned]

Editable

No

Disabled

No

No

**CustomProperties**

Text

Comma, Semicolon

Semicolon

[Not Assigned]

Editable

No

Disabled

No

No

**CopyOption**

Number

Fixed (0 Decimal Places)

No

No

No

[Not Assigned]

Editable

No

Disabled

No

0

No

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Formula:

```
@Command([FileSave]);@Command([FileCloseWindow]);
```

#### Action Exit\Without Saving

Formula:

```
FIELD SaveOptions := 0;
@Command([FileCloseWindow]);
```

#### Action Profile\Edit

Formula:

```
@Command([EditDocument];
1);
```

#### Action Profile\Edit

Formula:

```
@Command([EditDocument])
;
```

#### Action Profile\Print

Formula:

```
@Command([FilePrint]);
```

#### Action Profile\Print

Formula:

```
@Command([FilePrint]);
```

#### Action Profile\View

Formula:

```
@Command([EditDocument];
0);
```

#### Action Document\Download

Formula:

```
@URLOpen(URLDocumentPath);
```

#### Action Mail\Switch to Notes

Formula:

```
@Command([MailOpen]);
```

#### JavaScript & HTML Code:

[None]

#### LotusScript Code:

##### (Globals)

```
Option Public
Use "AppProcedures"
' these declarations are for determining whether
' client or matter numbers have been changed from those obtained
' in a lookup operation . . .
Dim ClientNumberFromLookup As String
Dim MatterNumberFromLookup As String
' these are used to determine if the user has changed the Client fields . . .
' values are set in post-open . . .
' and tested in the Exiting events of Client and ClientNumber . . .
Dim ExistingClient As String
Dim ExistingClientNumber As String
Dim CheckedOutThisSession As Integer
Sub Initialize
End Sub
```

##### (Form) DP

```
Sub Postopen(Source As Notesuidocument)
Dim session As New notessession
Set db = session.currentdatabase
Dim sourcedoc As notesdocument
Set sourcedoc = source.document
Dim lockdoc As notesdocument
Dim coll As notesdocumentcollection
```

```

If source.IsNewDoc Then
    ' we're going to get counter from a profile document kept on a per-user basis ...
    Set profile = db.getprofiledocument("NumberKeeper", session.username)
    tmpInitials = profile.Initials(0)
    If tmpInitials = "" Then
        tmpInitials = InputBox$("Enter your login initials: ")
        profile.Initials = tmpInitials
    End If
    Dim tmpNumber As Integer
    Dim numberitem As notesitem
    Set numberitem = profile.GetFirstItem("DocNumber")
    If numberitem Is Nothing Then
        tmpNumber = 0
    Else
        tmpNumber = numberitem.values(0)
    End If
    tmpNumber = tmpNumber + 1 ' new value is 1 greater than previous value
    profile.DocNumber = tmpNumber
    Call profile.save(True,True)
    tmpNumberString = tmpInitials + Trim(Str(tmpNumber))
    Call source.FieldSetText("DocumentNo",tmpNumberString)
    Call source.save
    CheckedOutThisSession = True
    Set sourcedoc = source.document
    Set lockdoc = db.CreateDocument
    lockdoc.form = "LockAndLog"
    lockdoc.CheckOutName = session.commonusername
    lockdoc.CheckOutTime = Now
    lockdoc.Log = "Created by " + session.commonusername + " on " + Format(Now,"General")
    lockdoc.DocumentNo = tmpNumberString
    Call lockdoc.makesresponse(sourcedoc)
    Call lockdoc.save(True,True)
Else ' here's the check-out stuff (which doesn't need to happen with a new doc)
    If source.editmode Then ' document opened in edit mode ...
        username = session.commonusername
        Set sourcedoc = source.document
        Set coll = sourcedoc.Responses
        If (coll Is Nothing) Or (coll.count = 0) Then ' no response doc; we have to create one .
            Set lockdoc = db.CreateDocument
            lockdoc.form = "LockAndLog"
            lockdoc.CheckOutName = session.commonusername
            lockdoc.CheckOutTime = Now
            lockdoc.Log = "Created by " + session.commonusername + " on " + Format(Now,"G")
            lockdoc.DocumentNo = sourcedoc.DocumentNo(0)
            Call lockdoc.makesresponse(sourcedoc)
            Call lockdoc.save(True,True)
            CheckedOutThisSession = True
        Else ' we did find the response document ...
            Set lockdoc = coll.getfirstdocument
            CheckOutName = lockdoc.CheckOutName(0)
            If Not (CheckOutName = "") Then ' is checked out ...
                If username = CheckOutName Then ' was already checked out to this user
                    CheckedOutThisSession = True ' want to prompt for checkin ...
                Else ' was checked out to someone else ...
                    MsgBox("Can't edit this; already checked out to " + CheckOutName + ". Will

```

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```

        source.editmode = False
    End If
    Else ' not checked out; so we check it out to this user ...
        lockdoc.CheckOutName = session.commonusername
        lockdoc.CheckOutTime = Now
        lockdoc.log = lockdoc.log(0) + Chr$(10) + "Checked out by " + session.commonu
        Call lockdoc.save(True, True) ' save it
        CheckedOutThisSession = True
    End If
    End If
    Else ' document opened in readmode ...
        ' can't think of anything that needs to be done ...
    End If
    End If
    ExistingClient = sourcedoc.Client(0)
    ExistingMatter = sourcedoc.Matter(0)
End Sub
Sub Querymodechange(Source As Notesuidocument, Continue As Variant)
    If source.editmode Then ' currently in edit mode, changing to read mode ...
        ' nothing to do ... ?
        Else ' changing to edit mode, from read-mode; do check out routine ...
            Dim session As New notessession
            username = session.commonusername
            Set sourcedoc = source.document
            Set coll = sourcedoc.Responses
            Set lockdoc = coll.getFirstdocument
            CheckOutName = lockdoc.CheckOutName(0)
            If Not (CheckOutName = "") Then ' is checked out ...
                If username = CheckOutName Then ' was already checked out to this user
                    ' nothing to do here ...
                Else ' was checked out to someone else ...
                    MsgBox("Can't edit this; already checked out to " + CheckOutName + ". Will open it
                    source.editmode = False
                End If
            Else ' not checked out; so we check it out to this user ...
                lockdoc.CheckOutName = session.commonusername
                lockdoc.CheckOutTime = Now
                lockdoc.log = lockdoc.log(0) + Chr$(10) + "Checked out by " + session.commonusern
                Call lockdoc.save(True, True) ' save it
                CheckedOutThisSession = True
            End If
            ExistingClient = sourcedoc.Client(0)
            ExistingMatter = sourcedoc.Matter(0)
        End If
    End Sub
Sub Querysave(Source As Notesuidocument, Continue As Variant)
    If (CheckedOutThisSession) Then
        reply = MsgBox("Are you through editing this Document?", 36, "Check in?")
        If reply = 6 Then ' YES
            'Call source.FieldSetText("CheckOutName", "")
            Dim session As New notessession
            Dim sourcedoc As notesdocument
            Dim lockdoc As notesdocument
            Dim coll As notesdocumentcollection
            Set sourcedoc = source.document

```

1007679.12101

```

        Set coll = sourcedoc.responses
        Set lockdoc = coll.getfirstdocument
        lockdoc.CheckOutName = ""
        lockdoc.Log = lockdoc.Log(0) + Chr$(10) + "Checked in by " + session.commonusername
        Call lockdoc.save(True,True)
        CheckedOutThisSession = False
    End If
End If
End Sub
Sub Queryclose(Source As Notesuidocument, Continue As Variant)
    If (CheckedOutThisSession) Then ' (used to have this condition also; caused two check-in dialog
        reply = MsgBox("Are you through editing this Document?", 36, "Check in?")
        If reply = 6 Then ' YES
            'Call source.FieldSetText("CheckOutName", "")
            Dim session As New notesession
            Dim sourcedoc As notesdocument
            Dim lockdoc As notesdocument
            Dim coll As notesdocumentcollection
            Set sourcedoc = source.document
            Set coll = sourcedoc.responses
            Set lockdoc = coll.getfirstdocument
            lockdoc.CheckOutName = ""
            lockdoc.Log = lockdoc.Log(0) + Chr$(10) + "Checked in by " + session.commonusername
            Call lockdoc.save(True,True)
            CheckedOutThisSession = False
        End If
    End If
End Sub
(Field) MatterNumber
Sub Exiting(Source As Field)
    Dim uiwork As New notesuiworkspace
    Dim uidoc As notesuidocument
    Set uidoc = uiwork.currentdocument
    tmpMatterNumber = uidoc.FieldGetText("MatterNumber")
    If tmpMatterNumber = MatterNumberFromLookup Then
        'do nothing
    Else
        're-set the Client field, to reflect the value of the new Client Number
        Dim s As New notesession
        Dim db As notesdatabase
        Set db = s.currentdatabase
        Dim view As notesview
        Set view = db.GetView("CMLUBN")
        Dim doc As notesdocument
        Dim key(1) As String
        key(0) = Trim(uidoc.FieldGetText("ClientNumber"))
        key(1) = Trim(tmpMatterNumber)
        Set doc = view.GetDocumentByKey(key)
        tmpMatter = doc.Matter(0)
        Call uidoc.fieldsetText("Matter", tmpMatter)
        Call uidoc.refresh
    End If
End Sub
(Field) Matter

```

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```

Sub Exiting(Source As Field)
    Dim uiwork As New notesuiworkspace
    Dim uidoc As notesuidocument
    Set uidoc = uiwork.currentdocument
    tmpClient = uidoc.FieldGetText("Client")
    tmpMatter = uidoc.FieldGetText("Matter")
    If Not tmpClient = "" Then
        If Not tmpMatter = "" Then
            Dim s As New notessession
            Dim db As notesdatabase
            Set db = s.currentdatabase
            Dim view As notesview
            Set view = db.GetView("CMLU")
            Dim doc As notesdocument
            Dim key(1) As String
            key(0) = tmpClient
            key(1) = tmpMatter
            Set doc = view.getdocumentbykey(key)
            Dim tmpMatterNumber As String
            tmpMatterNumber = doc.MatterNumber(0)
            Call uidoc.fieldsettext("MatterNumber", tmpMatterNumber)
            Call uidoc.refresh
            MatterNumberFromLookup = tmpMatterNumber
            Call uidoc.GoToField("RestrictReadAccess")
        End If
    End If
End Sub

(Field) ClientNumber
Sub Exiting(Source As Field)
    Dim uiwork As New notesuiworkspace
    Dim uidoc As notesuidocument
    Set uidoc = uiwork.currentdocument
    tmpClientNumber = Trim(uidoc.FieldGetText("ClientNumber"))
    If tmpClientNumber = ClientNumberFromLookup Then
        ' do nothing
    Else
        ' re-set the Client field, to reflect the value of the new Client Number
        Dim s As New notessession
        Dim db As notesdatabase
        Set db = s.currentdatabase
        Dim view As notesview
        Set view = db.GetView("CMLUBN")
        Dim doc As notesdocument
        Set doc = view.GetDocumentByKey(tmpClientNumber)
        tmpClient = Trim(doc.Client(0))
        Call uidoc.fieldsettext("Client", tmpClient)
        If Not tmpClientNumber = ExistingClientNumber Then ' user has changed the client-numt
            ' so we're gonna blank out the Matter fields (no longer valid choices) . . .
            Call uidoc.FieldSetText("Matter", "")
            Call uidoc.FieldSetText("MatterNumber", "")
            ExistingClientNumber = tmpClientNumber ' reset
        End If
        Call uidoc.refresh
    End If
End Sub

```

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**(Field) Client**

```

Sub Exiting(Source As Field)
    Dim uiwork As New notesuiworkspace
    Dim uidoc As notesuidocument
    Set uidoc = uiwork.currentdocument
    Dim tmpClientNumber As String
    tmpClient = Trim(uidoc.FieldGetText("Client"))
    If Not tmpClient = "" Then
        Dim s As New notessession
        Dim db As notesdatabase
        Set db = s.currentdatabase
        Dim view As notesview
        Set view = db.GetView("CMLU")
        Dim doc As notesdocument
        Set doc = view.getdocumentbykey(tmpClient)
        tmpClientNumber = Trim(doc.ClientNumber(0))
        Call uidoc.fieldsettext("ClientNumber", tmpClientNumber)
        ClientNumberFromLookup = tmpClientNumber
        If Not tmpClient = ExistingClient Then ' user has changed the client ...
            ' so we're gonna blank out the Matter fields (no longer valid choices) ...
            Call uidoc.FieldSetText("Matter", "")
            Call uidoc.FieldSetText("MatterNumber", "")
            ExistingClient = tmpClient ' reset, so this doesn't happen again, until changed again ...
        End If
        ' not sure if we need to do these things, so comment out for testing ...
        ' Call uidoc.refresh
        Call uidoc.gotofield("Matter")
    End If
End Sub

```

**(Field) DocType**

```

Sub Exiting(Source As Field)
    Dim session As New notessession
    Dim uiwork As New notesuiworkspace
    Set uidoc = uiwork.currentdocument
    Set db = session.currentdatabase
    Set view = db.getview("Templates")
    tmpTemplate = uidoc.FieldGetText("DocType")
    Set doc = view.GetDocumentByKey(tmpTemplate)
    tmpTemplatePath = doc.Path(0)
    Call uidoc.FieldSetText("TemplatePath", tmpTemplatePath)
    tmpAppClassName = doc.AppClassName(0)
    Call uidoc.FieldSetText("AppClassName", tmpAppClassName)
    ' commented these out because of type mismatch; need to deal with arrays here
    ' tmpBuiltinProperties = doc.BuiltinProperties
    ' Call uidoc.fieldsettext("BuiltinProperties", tmpBuiltinProperties)
    ' tmpCustomProperties = doc.CustomProperties
    ' Call uidoc.fieldsettext("CustomProperties", tmpCustomProperties)
End Sub

```

**(Button) Create Document**

```

Sub Click(Source As Button)
    ' check that all required fields have values ...
    Dim uiwork As New notesuiworkspace
    Dim doc As notesdocument
    Set uidoc = uiwork.currentdocument

```

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```

Set doc = uidoc.document
tmpDocName = uidoc.FieldGetText("DocName")
tmpDocType = uidoc.FieldGetText("DocType")
tmpClient = uidoc.FieldGetText("Client")
tmpMatter = uidoc.FieldGetText("Matter")
If ((tmpDocName = "") Or (tmpDocType = "") Or (tmpClient = "") Or (tmpMatter = "")) Then
    MsgBox "Document title, type, client and matter are REQUIRED fields. Please fill them in b
End
Else
    Dim session As New notesession
    Set db = session.currentdatabase
    Set profiledoc = db.GetProfileDocument("SystemProfile")
    templatePrefix = profiledoc.ClientTemplatePrefix(0)
    documentPrefix = profiledoc.DocPathClient(0)
    templatePath = templatePrefix + uidoc.fieldgettext("TemplatePath")
    exists = Dir(templatePath)
    If exists = "" Then ' not found
        MsgBox "Template not found"
    Else
        subdirType = profiledoc.PathType(0)
        Select Case subdirType
            Case "CNMN"
                subdirLevelOne = uidoc.fieldgettext("Client")
                subdirLevelTwo = uidoc.fieldgettext("Matter")
            Case "AT"
                tmpName$ = uidoc.fieldgettext("Author")
                Set nn = New notesname(tmpName$)
                subdirLevelOne = nn.common
                subdirLevelTwo = uidoc.fieldgettext("DocType")
            Case "CMDT"
                subdirLevelOne = uidoc.fieldgettext("Client") + " - " + uidoc.fieldgettext("Matter")
                subdirLevelTwo = uidoc.fieldgettext("DocType")
        End Select
        extension = Right(templatePath, 4)
        documentPath = documentPrefix
        exists = Dir(documentPath, 16)
        If exists = "" Then
            Mkdir documentPath
        End If
        documentPath = documentPath + subdirLevelOne
        exists = Dir(documentPath, 16)
        If exists = "" Then
            Mkdir documentPath
        End If
        documentPath = documentPath + "\" + subdirLevelTwo
        exists = Dir(documentPath, 16)
        If exists = "" Then
            Mkdir documentPath
        End If
        tmpDocumentNo = uidoc.fieldgettext("DocumentNo")
        documentPath = documentPath + "\" + tmpDocumentNo + extension
        ' copy the template document into the documents
        Filecopy templatePath, documentPath
        exists = Dir(documentPath)
        If Not exists = "" Then

```

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```

' set 3 hidden fields:
' 1 - for ClientDocumentPath
' 2 - for ServerDocumentPath
' 3 - for URLDocumentPath
Call uidoc.fieldSetText("ClientDocumentPath", documentPath)
ServerDocPath = profiledoc.DocPathServer(0) + subDirLevelOne + "\" + subDirLeve
Call uidoc.fieldSetText("ServerDocumentPath", ServerDocPath)
tmpLibrary = uidoc.fieldgettext("Library")
Set view = db.GetView("Library")
Set libdoc = view.GetDocumentByKey(tmpLibrary)
URLPrefix = libdoc.URLPrefix(0)
URLDocPath = URLPrefix + subDirLevelOne + "/" + subDirLevelTwo + "/" + tmpDocI
Call uidoc.fieldSetText("URLDocumentPath", URLDocPath)
Call uidoc.refresh
CheckedOutThisSession = False
Call uidoc.save
CheckedOutThisSession = True
' here's where we launch into an edit session
Call EditAppDoc(documentpath, False, doc)

Else
    MsgBox "Failed to create document."
End If
End If
End If
End Sub

(Button) Create Document
Sub Click(Source As Button)
    ' check that all required fields have values . . .
    Dim uiwork As New notesuiworkspace
    Dim doc As notesdocument
    Set uidoc = uiwork.currentdocument
    Set doc = uidoc.document
    tmpDocName = uidoc.FieldGetText("DocName")
    tmpDocType = uidoc.FieldGetText("DocType")
    tmpClient = uidoc.FieldGetText("Client")
    tmpMatter = uidoc.FieldGetText("Matter")
    If ((tmpDocName = "") Or (tmpDocType = "") Or (tmpClient = "") Or (tmpMatter = "")) Then
        MsgBox "Document title, type, client and matter are REQUIRED fields. Please fill them in t
    End
Else
    Dim session As New notessession
    Set db = session.currentdatabase
    Set profiledoc = db.GetProfileDocument("SystemProfile")
    ' templatePrefix = profiledoc.ClientTemplatePrefix(0)
    ' documentPrefix = profiledoc.DocPathClient(0)
    ' templatePath = templatePrefix + uidoc.fieldgettext("TemplatePath")
    ' exists = Dir(templatePath)
    ' If exists = "" Then ' not found
    '     MsgBox "Template not found"
    ' Else
    subDirType = profiledoc.PathType(0)
    If subDirType = "CNMN" Then
        subDirLevelOne = uidoc.fieldgettext("Client")
        subDirLevelTwo = uidoc.fieldgettext("Matter")
    Else

```

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```

        subDirLevelOne = uidoc.fieldgettext("Author")
        subDirLevelTwo = uidoc.fieldgettext("DocType")
    End If
    documentPath = documentPrefix
    exists = Dir(documentPath, 16)
    If exists = "" Then
        Mkdir documentPath
    End If
    documentPath = documentPath + subDirLevelOne
    exists = Dir(documentPath, 16)
    If exists = "" Then
        Mkdir documentPath
    End If
    documentPath = documentPath + "\" + subDirLevelTwo
    exists = Dir(documentPath, 16)
    If exists = "" Then
        Mkdir documentPath
    End If
    tmpDocumentNo = uidoc.fieldgettext("DocumentNo")
    tmpModelDoc = doc.CopyDocFrom(0)
    extension = Right(tmpModelDoc, 4)
    documentPath = documentPath + "\" + tmpDocumentNo + extension
    ' *****
    ' copy the model document into the documents
    exists = Dir(tmpModelDoc)
    If exists = "" Then
        MsgBox "Model document not found: " + tmpModelDoc
    End
End If
Filecopy tmpModelDoc, documentPath
exists = Dir(documentPath)
If Not exists = "" Then
    ' set 3 hidden fields:
    ' 1 - for ClientDocumentPath
    ' 2 - for ServerDocumentPath
    ' 3 - for URLDocumentPath
    Call uidoc.fieldsetText("ClientDocumentPath", documentPath)
    ServerDocPath = profiledoc.DocPathServer(0) + subDirLevelOne + "\" + subDirLevelTwo
    Call uidoc.fieldsetText("ServerDocumentPath", ServerDocPath)
    tmpLibrary = uidoc.fieldgettext("Library")
    Set view = db.GetView("Library")
    Set libdoc = view.GetDocumentByKey(tmpLibrary)
    URLPrefix = libdoc.URLPrefix(0)
    URLDocPath = URLPrefix + subDirLevelOne + "/" + subDirLevelTwo + "/" + tmpDocum
    Call uidoc.fieldsetText("URLDocumentPath", URLDocPath)
    CheckedOutThisSession = False
    Call uidoc.refresh
    Call uidoc.save
    CheckedOutThisSession = True
' (already done)      Set doc = uidoc.document
' here's where we launch into an edit session
    Call EditAppDoc(documentpath, False, doc)
Else
    MsgBox "Failed to create document."
End If

```

```

        End If
    End If
End Sub
(Action) Document\Edit
Sub Click(Source As Button)
    Dim uiwork As New notesuiworkspace
    Dim session As New notessession
    Set uidoc = uiwork.currentdocument
    Dim doc As notesdocument
    Set doc = uidoc.document
    Dim obj As Variant
    Dim filename As Variant
    filename = uidoc.FieldGetText("ClientDocumentPath")
    Call EditAppDoc(filename, False, doc)
End Sub
(Action) Document\Print
Sub Click(Source As Button)
    Dim uiwork As New notesuiworkspace
    Set uidoc = uiwork.currentdocument
    Dim doc As notesdocument
    Set doc = uidoc.document
    Dim filename As Variant
    filename = uidoc.FieldGetText("ClientDocumentPath")
    Call PrintAppDoc(filename, doc)
End Sub
(Action) Document\View
Sub Click(Source As Button)
    Dim uiwork As New notesuiworkspace
    Dim session As New notessession
    Set uidoc = uiwork.currentdocument
    Dim doc As notesdocument
    Set doc = uidoc.document
    Dim obj As Variant
    Dim filename As Variant
    filename = uidoc.FieldGetText("ClientDocumentPath")
    Call EditAppDoc(filename, True, doc)
End Sub
(Action) Mail\Link to Document
Sub Click(Source As Button)
    Dim ws As New notesuiworkspace
    Set uidoc = ws.currentdocument
    Dim doc As notesdocument
    Set doc = uidoc.document
    Call MailLink(doc)
End Sub
(Action) Mail\Copy of Document
Sub Click(Source As Button)
    Dim ws As New notesuiworkspace
    Set uidoc = ws.currentdocument
    Dim doc As notesdocument
    Set doc = uidoc.document
    Call MailLink(doc)
End Sub

```

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**Name:**

Alias:  
 Last Modification:  
 Comment:  
 Type:  
 Include in Compose Menu:  
 Include in Query by Form:  
 Default Database Form:  
 Automatically Refresh Fields:  
 Mail New Documents When Saving:  
 Store Form In Documents:  
 Inherit Default Field Values:  
 Updates Become Responses:  
 Retain Prior Versions As Responses:  
 Activate Objects When Composing:  
 Activate Objects When Editing:  
 Activate Objects When Reading:  
 Document Encryption Keys:  
 Composed Documents May Be Read By:  
 Form May Be Composed By:

**Subcomponents:****Field:**

Datatype:  
 Help Description:  
 Field Type:  
 Sign When Mailing/In Section:  
 Encryption:  
 Update Requires Editor Access:  
 Is Scripted:

**Field:**

Datatype:  
 Help Description:  
 Field Type:  
 Sign When Mailing/In Section:  
 Encryption:  
 Update Requires Editor Access:  
 Is Scripted:

**Field:**

Datatype:  
 Help Description:  
 Field Type:  
 Keyword User Interface:  
 Allow Values Not In List:  
 Allowable Keywords:

Sign When Mailing/In Section:  
 Encryption:  
 Update Requires Editor Access:  
 Is Scripted:

**Document Template**

Tmp

Stores document templates

Document

Yes

Yes

No

No

No

No

No

Yes

No

No

No

No

[None Assigned]

All Users

All Users

**Name**

Text

[Not Assigned]

Editable

No

Disabled

No

No

**Path**

Text

[Not Assigned]

Editable

No

Disabled

No

No

**AppClassName**

Keywords

[Not Assigned]

Editable

Standard

No

Excel

Lotus 1-2-3

PowerPoint

Word

WordPerfect

No

Disabled

No

No

**Field:**

Datatype:  
 Input Multi-Value Separator(s):  
 Display Multi-Value Separator:  
 Help Description:  
 Field Type:  
 Keyword User Interface:  
 Allow Values Not In List:  
 Allowable Keywords:

Sign When Mailing/In Section:  
 Encryption:  
 Update Requires Editor Access:  
 Is Scripted:

**Field:**

Datatype:  
 Input Multi-Value Separator(s):  
 Display Multi-Value Separator:  
 Help Description:  
 Field Type:  
 Keyword User Interface:  
 Allow Values Not In List:  
 Sign When Mailing/In Section:  
 Encryption:  
 Update Requires Editor Access:  
 Default Value Formula:  
 Is Scripted:

**JavaScript & HTML Code:**

[None]

**LotusScript Code:**

[None]

**BuiltinProperties**

Keywords  
 Comma  
 Comma  
 [Not Assigned]  
 Editable  
 Standard  
 No  
 Title  
 Subject  
 Author  
 Keywords  
 Comments  
 Template  
 Last Author  
 Revision Number  
 Category  
 Format  
 Manager  
 Company  
 No  
 Disabled  
 No  
 No

**CustomProperties**

Keywords  
 Comma  
 Comma  
 [Not Assigned]  
 Editable  
 Standard  
 Yes  
 No  
 Disabled  
 No  
 CustomProperties  
 No

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**Name:**

Last Modification:

Comment:

Type:

Include in Compose Menu:

Include in Query by Form:

Default Database Form:

Automatically Refresh Fields:

Mail New Documents When Saving:

Store Form In Documents:

Inherit Default Field Values:

Updates Become Responses:

Retain Prior Versions As Responses:

Activate Objects When Composing:

Activate Objects When Editing:

Activate Objects When Reading:

Document Encryption Keys:

Composed Documents May Be Read By:

Form May Be Composed By:

**Subcomponents:****Field:**

Datatype:

Help Description:

Field Type:

Sign When Mailing/In Section:

Encryption:

Update Requires Editor Access:

Is Scripted:

**Field:**

Datatype:

Help Description:

Field Type:

Sign When Mailing/In Section:

Encryption:

Update Requires Editor Access:

Is Scripted:

**JavaScript & HTML Code:**

[None]

**LotusScript Code:**

[None]

**Library**

[Not Assigned]

Document

Yes

Yes

No

No

No

No

No

No

No

No

No

No

[None Assigned]

All Users

All Users

**Library**

Text

[Not Assigned]

Editable

No

Disabled

No

No

**URLPrefix**

Text

[Not Assigned]

Editable

No

Disabled

No

No

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**Name:**

Last Modification:  
 Comment:  
 Type:  
 Include in Compose Menu:  
 Include in Query by Form:  
 Default Database Form:  
 Automatically Refresh Fields:  
 Mail New Documents When Saving:  
 Store Form In Documents:  
 Inherit Default Field Values:  
 Updates Become Responses:  
 Retain Prior Versions As Responses:  
 Activate Objects When Composing:  
 Activate Objects When Editing:  
 Activate Objects When Reading:  
 Document Encryption Keys:  
 Composed Documents May Be Read By:  
 Form May Be Composed By:

**Subcomponents:****Field:**

Datatype:  
 Help Description:  
 Field Type:  
 Sign When Mailing/In Section:  
 Encryption:  
 Update Requires Editor Access:  
 Is Scripted:

**Field:**

Datatype:  
 Time Format:  
 Help Description:  
 Field Type:  
 Sign When Mailing/In Section:  
 Encryption:  
 Update Requires Editor Access:  
 Is Scripted:

**Field:**

Datatype:  
 Help Description:  
 Field Type:  
 Sign When Mailing/In Section:  
 Encryption:  
 Update Requires Editor Access:  
 Is Scripted:

**Field:**

Datatype:  
 Help Description:  
 Field Type:  
 Sign When Mailing/In Section:  
 Encryption:  
 Update Requires Editor Access:

**LockAndLog**

for record locking and log  
 Response to Document

No  
 Yes  
 No  
 No  
 No  
 No  
 No  
 No  
 No  
 No  
 No  
 No  
 [None Assigned]  
 All Users  
 All Users

**CheckOutName**

Text  
 [Not Assigned]  
 Editable  
 No  
 Disabled  
 No  
 No

**CheckOutTime**

Time  
 05/13/99  
 [Not Assigned]  
 Editable  
 No  
 Disabled  
 No  
 No

**Log**

Text  
 [Not Assigned]  
 Editable  
 No  
 Disabled  
 No  
 No

**DocumentNo**

Text  
 [Not Assigned]  
 Editable  
 No  
 Disabled  
 No

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Is Scripted:

No

**JavaScript & HTML Code:**

[None]

**LotusScript Code:**

[None]

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**Name:**

Last Modification:

Comment:

Type:

Window Title Formula:

Include in Compose Menu:

Include in Query by Form:

Default Database Form:

Automatically Refresh Fields:

Mail New Documents When Saving:

Store Form In Documents:

Inherit Default Field Values:

Updates Become Responses:

Retain Prior Versions As Responses:

Activate Objects When Composing:

Activate Objects When Editing:

Activate Objects When Reading:

Document Encryption Keys:

Composed Documents May Be Read By:

Form May Be Composed By:

**Subcomponents:****Field:**

Datatype:

Number Format:

Percentage (value \* 100)%:

Parentheses on Negative Numbers:

Punctuated at Thousands:

Help Description:

Field Type:

Sign When Mailing/In Section:

Encryption:

Update Requires Editor Access:

Is Scripted:

**Field:**

Datatype:

Help Description:

Field Type:

Sign When Mailing/In Section:

Encryption:

Update Requires Editor Access:

Is Scripted:

**Field:**

Datatype:

Input Multi-Value Separator(s):

Display Multi-Value Separator:

Help Description:

Field Type:

Keyword User Interface:

Allow Values Not In List:

Sign When Mailing/In Section:

**SoftSolutions**

[Not Assigned]

Document

"SoftSolutions Converted Documents"

Yes

Yes

No

No

No

No

No

No

No

No

Yes, Show Notes Document

Yes, Show Notes Document

[None Assigned]

All Users

All Users

**DocumentNo**

Number

General

No

No

No

SoftSolutions Number

Editable

No

Disabled

No

No

**DocName**

Text

SoftSolutions Document

Name

Editable

No

Disabled

No

No

**AuthorDescription**

Keywords

Comma

Comma

SoftSolutions Author Name

Editable

Standard

Yes

No

Encryption:  
Update Requires Editor Access:  
Is Scripted:

**Field:**

Datatype:  
Input Multi-Value Separator(s):  
Display Multi-Value Separator:  
Help Description:  
Field Type:  
Keyword User Interface:  
Allow Values Not In List:  
Allowable Keywords:

Sign When Mailing/In Section:  
Encryption:  
Update Requires Editor Access:  
Is Scripted:

**Field:**

Datatype:  
Input Multi-Value Separator(s):  
Display Multi-Value Separator:  
Help Description:

Field Type:  
Keyword User Interface:  
Allow Values Not In List:  
Sign When Mailing/In Section:  
Encryption:  
Update Requires Editor Access:  
Default Value Formula:

Is Scripted:

**Field:**

Datatype:  
Input Multi-Value Separator(s):  
Display Multi-Value Separator:  
Help Description:  
Field Type:  
Keyword User Interface:  
Allow Values Not In List:  
Sign When Mailing/In Section:  
Encryption:  
Update Requires Editor Access:  
Is Scripted:

**Field:**

Datatype:

Disabled  
No  
No

**DocumentTypeCode**

Keywords  
Comma  
Comma  
SoftSolutions Document Type  
Editable  
Standard  
Yes  
Agreement  
Brief  
Contract  
Correspondence  
Deposition  
Form  
Letter  
Memorandum  
Proposal  
Spreadsheet  
No  
Disabled  
No  
No

**ClientDescription**

Keywords  
Comma  
Comma  
SoftSolutions Client  
Description  
Editable  
Standard  
Yes  
No  
Disabled  
No  
@DbLookup(elite : son\_db;  
matter; mname);  
No

**Security**

Keywords  
Comma  
Comma  
SoftSolutions Security Group  
Editable  
Standard  
Yes  
No  
Disabled  
No  
No

**DateCreated**

Text

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Help Description:  
 Field Type:  
 Sign When Mailing/In Section:  
 Encryption:  
 Update Requires Editor Access:  
 Is Scripted:

**Field:**

Datatype:  
 Help Description:  
 Field Type:  
 Sign When Mailing/In Section:  
 Encryption:  
 Update Requires Editor Access:  
 Is Scripted:

**Field:**

Datatype:  
 Help Description:  
 Field Type:  
 Sign When Mailing/In Section:  
 Encryption:  
 Update Requires Editor Access:  
 Is Scripted:

**Field:**

Datatype:  
 Help Description:  
 Field Type:  
 Sign When Mailing/In Section:  
 Encryption:  
 Update Requires Editor Access:  
 Is Scripted:

**Field:**

Datatype:  
 Help Description:  
 Field Type:  
 Sign When Mailing/In Section:  
 Encryption:  
 Update Requires Editor Access:  
 Is Scripted:

**Field:**

Datatype:  
 Help Description:  
 Field Type:  
 Sign When Mailing/In Section:  
 Encryption:  
 Update Requires Editor Access:  
 Is Scripted:

**Action Save Profile**

Formula:

**Action Save Version**

Formula:

[Not Assigned]

Editable

No

Disabled

No

No

**CreatedBy**

Text

[Not Assigned]

Editable

No

Disabled

No

No

**DateOpened**

Text

[Not Assigned]

Editable

No

Disabled

No

No

**RevisedBy**

Text

[Not Assigned]

Editable

No

Disabled

No

No

**DocPath**

Text

Location of Document

Editable

No

Disabled

No

No

**SSReaders**

Reader Names

[Not Assigned]

Editable

No

Disabled

No

No

@Command([FileCloseWindow]);

@Command([FileSaveNewVersion]);

**Action Edit Document**

Formula:

`@Command([Execute];  
DocPath);`**JavaScript & HTML Code:**

[None]

**LotusScript Code:**

[None]

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